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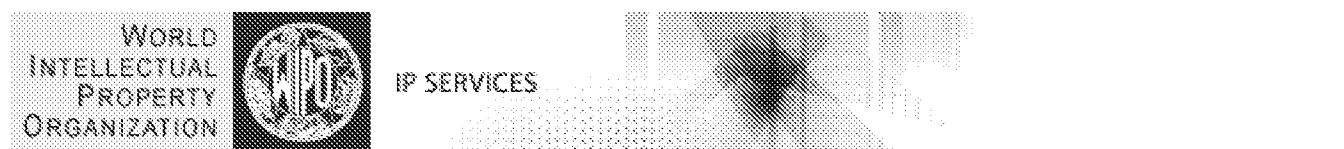
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The present invention provides a low cost receiver by reducing the required dynamic range of the ADC in a wireless communication receiver, without degrading the receiver performance. In the wireless communication receiver of the invention, a digital filter digital signals from the ADC to attenuate residual interferers in the digital signals by a predetermined amount (e.g., as prescribed in a technical specification). This allows relaxation of tolerable quantization noise generated by the ADC to a pre-defined level to thereby substantially reduce a dynamic range of the ADC. This pre-defined level of quantization noise is higher than prescribed by the receiver's sensitivity, while the total interference o...

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Pub. No.: WO/2004/102819 International Application No.: PCT/IB2004/050467
Publication Date: 25.11.2004 International Filing Date: 16.04.2004

IPC: H04B 1/10 (2006.01)

Applicants: KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL) (*All Except US*).
QIAN, Xuecheng [CN/CN]; Philips Electronics China, 21/F Kerry Office Building 218 Tian Mu, Xi Road, Shanghai 200070 (CN) (*US Only*).

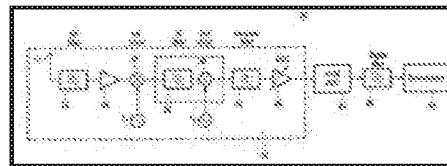
Inventor: QIAN, Xuecheng; Philips Electronics China, 21/F Kerry Office Building 218 Tian Mu, Xi Road, Shanghai 200070 (CN).

Agent: KONINKLIJKE PHILIPS ELECTRONICS N.V.; c/o Van der Veer, Johannes, L., Prof. Holstiaan, 6, NL-5656 AA Eindhoven (NL).

Priority Data: 03131365.5 16.05.2003 CN

Title: WIRELESS COMMUNICATION RECEIVER HAVING AN ADC WITH A LIMITED DYNAMIC RANGE

Abstract: The present invention provides a low cost receiver by reducing the required dynamic range of the ADC in a wireless communication receiver, without degrading the receiver performance. In the wireless communication receiver of the invention, a digital filter is used to filter digital signals from the ADC to attenuate residual interferers in the digital signals by a predetermined amount (e.g., more than that prescribed in a technical specification). This allows relaxation of tolerable quantization noise generated by the ADC to a pre-defined level to thereby substantially reduce a dynamic range of the ADC. This pre-defined level of quantization noise is higher than a level prescribed by the receiver's sensitivity, while the total interference of the receiver is kept at a level not greater than an allowable level. Thus, the ADC has a word length that corresponds to the reduced dynamic range. Accordingly, not only the cost of the ADC is decreased, the costs of all signals processing modules following the ADC are also decreased, resulting in a substantial reduction in the overall cost of the receiver.



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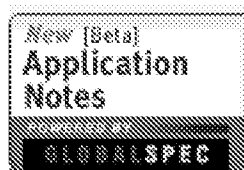

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






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 Gramegna, F.; Moroni, A.; Casini, G.; Bruno, M.; Abbondanno, U.; Bassinr, R.
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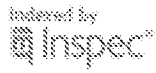
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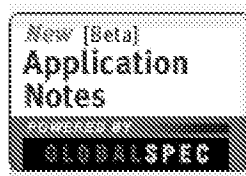
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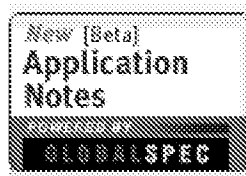
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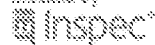
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noise generated...corresponds to the reduced dynamic range. [1
Accordingly...converter (ADC) that converts...and (c) a digital filt
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Cooper, Scott A. / Esterberg, Aanand L. (Impinj, Inc.), *UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT*, Oct 2005
patno:US6954159
...section is provided in this ADC as in FIG. 1a but not shown...low
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- ☒ 11. [DIGITAL CIRCUIT FOR A FREQUENCY MODULATION AND CARRIER RADIO SYSTEM](#)
REED, Roger (REED, Roger), *PATENT COOPERATION TREATY AP*
patno:WO9107828
...to analog converter (DAC), thereby reducing the synthesizer quæ
equivalent bil: precision in the digital to analog conversion...micro
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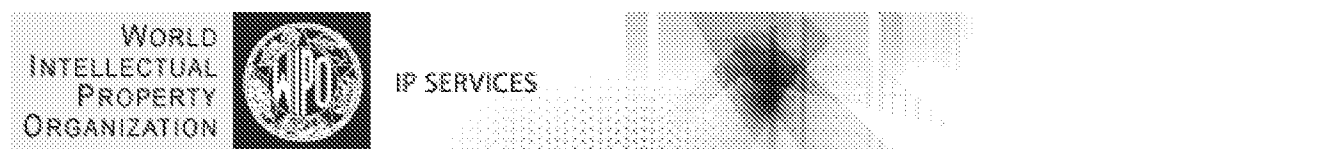
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Title	Pub. Date	Int. Class	App. Num	
1. (WO 1991/007828) <u>DIGITAL CIRCUIT FOR A FREQUENCY MODULATION AND CARRIER SYNTHESIS IN A DIGITAL RADIO SYSTEM</u>	30.05.1991	H03C 3/09	PCT/US1990/005988	F

An integrated, multimode FM radio system including a common reference clock (4) providing synchronized digital signal processing both transmission (1) and reception (2). The radio system according to the present invention also includes a novel digital frequency synthesizer (3, 8, 9, 43, 44), a digital FM demodulator (17) and a digital FM modulator (16) which together provide improved modulation and demodulation fidelity thereby assuring interoperability with other radios in all analog and digital modulation modes. Improved spectral purity and faster channel switching speed for the frequency hopping synthesizer (71), improved reliability, reduction in complexity, and reduction of radio production cost, including reduction in test time.

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Effective Date: 11/10/2005

Class/Subclass: 375/350.000

Application Received: 11/10/2005

Lost Case: NO

Pat. Num./Pub. Num.: [/20060251186](#)

Interference Number:

Issue Date: 00/00/0000

Unmatched Petition: NO

Date of Abandonment: 00/00/0000

[L&R Code](#): Secrecy Code:1

Attorney Docket Number: CN 030011

Third Level Review: NO

Secrecy Order: NO

Status: 30 /DOCKETED NEW CASE - READY FOR EXAMINATION

Status Date: 10/14/2006

Confirmation Number: 6573

Oral Hearing: NO

Title of Invention: WIRELESS COMMUNICATION RECEIVER HAVING AN ADC WITH A LIMITED DYNAMIC RANGE

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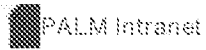
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**IDS
Information**

Content	Mallroom Date	Entry Number	IDS Review	Last Modified	Reviewer
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Inventor Information for 10/556249

Inventor Name	City	State/Country
QIAN, XUECHENG	SHANGHAI	CHINA

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Inventor Name Search Result

Your Search was:

Last Name = QIAN

First Name = XUECHENG

Application#	Patent#	Status	Date Filed	Title	Inventor Name
10556249	Not Issued	30	11/10/2005	Wireless communication receiver having an adc with a limited dynamic range	QIAN, XUECHENG
10557381	Not Issued	161	11/18/2005	Multi-band and multi-mode mobile terminal for wireless communication systems	QIAN, XUECHENG
10572846	Not Issued	30	03/21/2006	Methods and system for controlling an illuminating apparatus	QIAN, XUECHENG
10581805	Not Issued	30	06/02/2006	Receiver For Wireless Communications	QIAN, XUECHENG
10581808	Not Issued	30	06/02/2006	Receiver architecture for wireless communication	QIAN, XUECHENG
10588255	Not Issued	30	08/02/2006	Bandpass sampling receiver and the sampling method	QIAN, XUECHENG
11574738	Not Issued	160	01/01/0001	WIRELESS COMMUNICATION APPARATUS WITH MULTI-ANTENNA AND METHOD THEREOF	QIAN, XUECHENG
11813993	Not Issued	30	07/13/2007	Low Intermediate Frequency Receiver and the Same Method Thereof	QIAN, XUECHENG
12162175	Not Issued	19	01/01/0001	METHOD AND APPARATUS FOR SAMPLING RF SIGNALS	QIAN, XUECHENG

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